



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/673,735		12/27/2000	Bernd Dorken	028622/0102	3749
22428	7590	08/03/2005		EXAMINER	
FOLEY AT	ND LAR	DNER	TUNGATURTHI, PARITHOSH K		
SUITE 500 3000 K STR	EET NW	,	ART UNIT	PAPER NUMBER	
WASHING	TON, DO	20007	1643		
				DATE MAILED: 08/03/2005	5

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No	. Applicant(s)					
		09/673,735	DORKEN ET AL	1				
	Office Action Summary	Examiner	Art Unit	-				
	•							
	The MAILING DATE of this communic	Parithosh K. Tu		address				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE - External after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC nor of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply wireply received by the Office later than three months after the provided patent term adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no event, how ication. days, a reply within the statutory motory period will apply and will expinull, by statute, cause the application	wever, may a reply be timely filed inimum of thirty (30) days will be considered tin e SIX (6) MONTHS from the mailing date of this to become ABANDONED (35 U.S.C. § 133).					
Status								
1)⊠)⊠ Responsive to communication(s) filed on <u>23 May 2005</u> .							
2a)🛛	This action is FINAL . 2b	o)⊠ This action is non-fi	nal.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice	e under <i>Ex parte Quayle</i> ,	1935 C.D. 11, 453 O.G. 213.					
Dispositi	ion of Claims							
4) 🖂	4)⊠ Claim(s) <u>1-5,7-16,20-23,30,33,37,40,41,44 and 45</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)	5) Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-5, 7-16, 20-23, 30, 33, 37, 40, 41, 44 and 45</u> is/are rejected.							
7)	7) Claim(s) is/are objected to.							
8)	Claim(s) are subject to restricti	on and/or election requir	ement.					
Applicati	ion Papers							
9)	The specification is objected to by the	Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmen	, t(s)	•						
_	te of References Cited (PTO-892)	4) [Interview Summary (PTO-413)					
2) Notic	e of Draftsperson's Patent Drawing Review (PT	O-948)	Paper No(s)/Mail Date	OTO 450)				
	mation Disclosure Statement(s) (PTO-1449 or Per No(s)/Mail Date <u>12.27.00; 03.28.05</u> .		Notice of Informal Patent Application (F Other:	110-152)				
S. Patent and Trademark Office								

Application/Control Number: 09/673,735 Page 2

Art Unit: 1643

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set

forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this

application is eligible for continued examination under 37 CFR 1.114, and the fee set

forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action

has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/23/05

has been entered.

2. No claims have been amended or added since the advisory action in which the

amendment filed 3/28/05 was entered and addressed.

3. Claims 1-5, 7-16, 20-23, 30, 33, 37, 40, 41, 44 and 45 are pending and under

examination.

4. The text of those sections of Title 35 U.S.C. code not included in this office action

can be found in a prior Office Action.

Response to Arguments

5. The rejection of claim 11 and newly added claim 44-45 under 35 USC 112, first

paragraph is maintained.

The response filed 5/23/05 requesting consideration of the amendment filed 3/28/05 has been carefully considered but is deemed not to be persuasive. The response states that the claims require binding. In response to this argument, although the claims require binding as stated in the response, the specification as well as the prior art does not teach an antibody with only one CDR that binds. Therefore, one skill in the art would not expect antibodies as claimed which do not have a full set of CDRs to bind antigen.

6. The rejection of claims 1-5, 7-16, 20-23, 30, 33, 37, 40, 41, 44 and 45 under 35 USC 103(a) as being unpatentable over Bohlen et al and further in view of Mack et al and as evidenced from the specification and Blattler et al is maintained.

The response filed 5/23/05 requesting consideration of the amendment filed 3/28/05 has been carefully considered but is deemed not to be persuasive. The response states that Bohlen needed anti-CD28 antibodies with his molecule (see page 12 of response). In response to this Bohlen et al teach a bispecific molecule directed to the antigens claims, regardless of any additional molecules. The difference is that Bohlens molecule is not a single chain. The response states that Kipriyonov's molecules which were made like Gruber did not function and Kipriyanov's studies after Mack would provide evidence to not pursue a single chain antibody (see page 14 of response). In response to this argument, the art of Kipriyanov (int J cancer 77:763-772, 1998) is not prior art because it was published after the effective filing date of the application. The art of Mack teaches a bispecific single chain antibody in the orientation

Art Unit: 1643

claimed and it was functional. Therefore one reading Mack would conclude that the orientation is essential and would pick the orientation claimed.

Conclusion

- 7. No claims are allowed.
- This is a RCE of applicant's earlier Application No. 09/673735. All claims are 8. drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, THIS ACTION IS MADE FINAL even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Application/Control Number: 09/673,735

Art Unit: 1643

9. Any inquiry concerning this communication or earlier communications from the

Page 5

examiner should be directed to Parithosh K. Tungaturthi whose telephone number is

571-272-8789. The examiner can normally be reached on Monday through Friday from

8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Larry R. Helms, Ph.D. can be reached on (571) 272-0832. The fax phone

number for the organization where this application or proceeding is assigned is 703-

872-9306.

10. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

LARRY R. HELMS, PH.D.

Respectfully, Parithosh K. Tungaturthi Ph.D. (571) 272-8789